ALARM MANAGEMENT AND RESPONSE PROCEDURE

1.0 PURPOSE

The purpose of this procedure is to establish a standardized method for Analysis, Evaluation, Verification, and Response to **ALARM**s, **ALERT**s, and **NOTICE**s as generated by the Supervisory Control and Data Acquisition (**SCADA**) system. An alarm is a visible and/or audible means of indicating to the Controller an equipment malfunction, a process deviation, or other condition requiring a Controller's response.

NOTE: SCADA activity presents to the Controller in the following basic categories:		
CRITICAL	**Priority 0** **or** **Priority 4**	Reserved solely for ALARMs indicating a possible Pipeline Imbalance (Priority 0 Leak Detection Emerg-Lo, Priority 4 Code Red Initiated).
ALARM	**Priority 1** **(Safety Related)**	Highest of the primary control system ALARM priorities, target - 3-7% (*nominally 5%*) of ALARMs should utilize this priority. (Safety Related or Abnormal Operating Conditions List)
ALERT	**Priority 2**	Second of the three primary control system ALARM priorities, target - 15-25% (*nominally 15%*) of ALARMs should utilize this priority.
NOTICE	**Priority 3**	Third of the three primary control system ALARM priorities, target - 75-80% (*nominally 80%*) of ALARMs should utilize this priority.

2.0 THE CONTROLLER SHALL:

- Analyze and Verify each **ALARM**, **ALERT**, or **NOTICE**. Assume each ALARM, ALERT, and NOTICE events are real until analysis or verification indicates otherwise.

- Follow the documented Alarm Response for each ALARM, ALERT, or NOTICE; including Analysis of, Evaluation of, Verification of, Response to and Documentation of, as required by the Alarm Response.

- Take a blended response approach and complete all the Alarm Response steps for each event generated, as well as any additional response step required in the Alarm Response.

- Prioritize actions taken to the event based on the Priority of the ALARM, ALERT, or NOTICE. For example, if one event indicates an Abnormal or Emergency Condition, while the other events are anticipated or expected, priority response should be given to the Abnormal or Emergency event.

- Notify Supervisor if an ALARM, ALERT or NOTICE is presented that is not listed on Alarm Response Document.

- Request all **Tag** (remote command disable), **Inhibit** (Alarm Suppression) or **Deactivate** (taken off scan) functions through the Operations Control Supervisor. No controller is allowed to inhibit, tag or deactivate points in the scada system, or otherwise change any SCADA Settings (Alarm Priorities, Type, etc…) unless approved by supervisor.

  Note: Performing this task for any PSM (Process Safety Management) related activity requires notification to the PSM facility Supervisor. Link to PSM/RMP Facility List

3.0 Alarm Determination:

Note: Each alarm should require Controller action. Each alarm should be clear, meaningful, and relevant to the tasks of the Controller. Each alarm should be documented and have a defined response. A single event should not produce multiple alarms signifying essentially the same thing. Alarms should not activate during routine pipeline variable changes, or from normal, expected modes of operation that do not require additional Controller action.

All Employees Shall:

Request additions or deletions of ALARMs, ALERTs, NOTICEs and/or edits to any Alarm Response through the appropriate Operations Control Console Supervisor, providing the following information:

- Description

- Indication

- Detail desired Controller Response and/or Corrective Actions

The Operations Control Supervisor shall:

- Review requests of additions or deletions of ALARMs, ALERTs, NOTICEs and/or edits to any Alarm Response, verifying and validating the appropriate Description, Condition, Indication and Response.

- Submit requests requiring SCADA additions/deletions/changes to the appropriate SCADA analyst, Livelink SCADA Change Management Request workflow process.

- Submit requests requiring changes to any Alarm Response to the Operations Control Coordinator for **Documentation & Rationalization** processing (*priority determination*).

- Communicate via Controller Required Reading any changes to the appropriate Controllers, affected parties and stake holders.

The Operations Control Coordinator shall:

- Maintain Alarm Response documentation.

- Maintain and annually review and the ALARM Philosophy & Written Plan.

System Integrity Plan Change Log

Date	Change Location	Brief Description of Change	Field Impact Y/N
06/29/11	All	New – CRM Compliance enhancement	N
08/23/11	Purpose	Edited link to AOC List to go to folder instead of document	N
12/31/11		2012 annual review complete	N
03/03/12	Controller Shall:	Added note re: PSM facilities	N
05/0812	Controller Shall:	Added language Controller Shall not change SCADA Settings (Alarm Priorities)	N

Alarm Alert Notice Response Table

Description	Condition	Console	Link
ALARM TABLE NAVIGATOR			
PRIORITY 1- ALARM			
% HEIGHT	A/D-FAIL	ALL	HEIGHT_AD_FAIL
% HEIGHT	HI-HI	ALL	HEIGHT_HI_HI
ALTERNATE MODEM/RTU	FAILURE	ALL	ALTERNATE_MODEM_RTU
BT DRA PERMISSIVE	WARN / LOCKOUT	ALL	BT_DRA_PERMISSIVE
BT OVERALL HEALTH STATUS	ACTIVE	ALL	BT_OVERALL_HEALTH_STATUS
BYPASS FLOW	ACTIVE	LONGHORN PIPELINE ONLY	BYPASS_FLOW
CARTHAGE CAVERN EMERGENCY HI VAPORS	ACTIVE	4 ONLY	CARTHAGE_CAVERN_EMERGENCY_HI_VAPORS
CAVERN HI HI LEVEL TIMER ON	ACTIVE	REFERS TO THE CARTHAGE PROPANE CAVERN	CAVERN_HI_HI_LEVEL_TIMER_ON
CAVERN HI HI LEVEL EMERGENCY SHUTDOWN	ACTIVE	REFERS TO THE CARTHAGE PROPANE CAVERN	CAVERN_HI_HI_LEVEL_EMERGENCY_SHUTDOWN
CAVERN HI HI PRESSURE TIMER ON	ACTIVE	REFERS TO THE CARTHAGE PROPANE CAVERN	CAVERN_HI_HI_PRESSURE_TIMER_ON
CAVERN HI HI PRESSURE EMERGENCY SHUTDOWN	ACTIVE	REFERS TO THE CARTHAGE PROPANE CAVERN	CAVERN_HI_HI_PRESSURE_EMERGENCY_SHUTDOWN
CAVERN HIGH PRESSURE	ACTIVE	REFERS TO THE CARTHAGE PROPANE CAVERN	CAVERN_HIGH_PRESSURE
CODE RED INTITIATED CONSOLE #1-8#	ALARM	ALL	CODE_RED_INITIATED
COMM FAIL	FAILURE	ALL	COMM_FAIL
CONTROL COMMUNICATIONS	CONTROL	ALL	Comm Fail - Control Communications
DRA URGENT	ACTIVE	1 THROUGH 4	DRA_URGENT
DROP CHECK	TRIPPED	ALL	DROP_CHECK
EMERGENCY SHTDWN	ACTIVE	ALL	EMERGENCY_SHUT_DOWN

Alarm Alert Notice Response Table

ALARM TABLE NAVIGATOR			
Description	**Condition**	**Console**	**Link**
PRIORITY 1- ALARM			
EMERGENCY HIGH SUMP	ACTIVE	ALL	EMERGENCY_HIGH_SUMP
EMERGENCY HIGH SUMP – TERM	HIGH-HIGH	ALL	EMERGENCY_HIGH_SUMP_TERM
EMERGENCY SHUT DOWN	SHUTDOWN	CONSOLES 5-6	EMERGENCY_SHUT_DOWN
ENTERPRISE FIRE	ACTIVE	NH3 ONLY	ENTERPRISE_FIRE
ENTERPRISE HAZARDOUS GAS	ACTIVE	NH3 ONLY	ENTERPRISE_HAZARDOUS_GAS
ENTERPRISE – LINK DOWN	FAILURE	NH3 ONLY	ENTERPRISE_LINK_DOWN
ESD BYPASS	ACTIVE	ALL	ESD BYPASS
EXPLORER ESD VALVE	ALARM	4	EXPLORER_ESD_VALVE
FINAL TIME OUT	ACTIVE	ALL	FIN_T_O
FIRE	ACTIVE	ALL	FIRE
HAZARDOUS GAS	DETECTED	ALL	HAZARDOUS GAS
HI TEMP	ACTIVE	ALL	HI_TEMP
HIGH LEVEL TANK	HIGH-HIGH	CONSOLES 1-4	HIGH_LEVEL_TANK
HIGH RECEIVE PRESSURE	ACTIVE	NH3 ONLY	HIGH_RECEIVE_PRESSURE
HIGH RELIEF TANK	ACTIVE	ALL	HIGH_RELIEF_TANK
HI-HI RELIEF TANK	ACTIVE	ALL	HI_HI_RELIEF_TANK
HP RELIEF FLOW	ACTIVE	ALL	HP_RELIEF_FLOW
INTER RELEIF TANK	ALARM	ALL	INTER_RELIEF_TANK
INTERMEDIATE TIME OUT	ACTIVE	ALL	INT_T_O
MAINLINE RELIEF FLOW	ACTIVE	ALL	MAINLINE_RELIEF_FLOW
LEAK DETECTION CABLE	ACTIVE	LONGHORN PIPELINE ALARM/EDWARD'S AQUIFER – AUSTIN, TX	LEAK_DETECTION_CABLE
LEAK DETECTION	DISABLED	ALL	LEAK_DETECTION
LEAK DETECTION OPERATION	ALARM	LONGHORN AND NH3 ONLY	LEAK_DETECTION_OPERATION_FAILURE

Alarm Alert Notice Response Table

ALARM TABLE NAVIGATOR			
Description	**Condition**	**Console**	**Link**
PRIORITY 1- ALARM			
FAILURE/ERROR			
LEAK DETECTION LEAKWARN	EMERG-LO	ALL	LEAKWARN EMERG LO
LEAK DETECTION PLDS	EMERG-LO	1 & 7	LEAK DETECTION PLDS
LEAK DETECTION SCADA	EMERG-LO	ALL	LEAK DETECTION SCADA
LINE/TANK DENSITY MISMATCH	MISMATCH	CONSOLE 5/6	LINE TANK DENSITY MISMATCH
LOCATION/TANK #	COMMFAIL	1 THROUGH 4	COMM FAIL TANK
LOCKOUT	LOCKOUT	ALL	LOCKOUT
STATION LOCKOUT	LOCKOUT	ALL	STATION LOCKOUT
LOC.*TANK #*.TANK	LO-LO	ALL	LOC TANK LO LO
MODEL CONNECTION LOST	ALARM	LONGHORN AND NH3 ONLY	MODEL CONNECITON LOST
MOP +10% EXCEEDED	MOP HI-HI	ALL	MOP 10 EXCEEDED HI HI
MOP +10% EXCEEDED	SHUTDOWN	ALL	MOP 10 EXCEEDED SHUTDOWN
MOP TIMER	EXPIRED	ALL	MOP TIMER
PEDERNALES RIVER FLOW	HI-HI	ALL	PEDERNALES RIVER FLOW
PLANT FAULT	FAULT	(AGRIUM/KOCH)	PLANT FAULT AGRIUM KOCH
PLDS	EMERG-LO	LONGHORN AND NH3 ONLY	PLDS EMERG LO
PRESSURE	A/D-FAIL	ALL	PRESSURE
PRESSURE	LOW-LOW	ALL	PRESSURE
PRESSURE	HI-HI	ALL	PRESSURE
PRESSURE	HIGHHIGH	ALL	PRESSURE
RACK FIRE ALARM	ACTIVE	ALL	FIRE
RELIEF FLOW	ACTIVE	ALL	RELIEF FLOW
RELIEF FLOW STATION	ACTIVE	ALL	RELIEF FLOW STATION
RELIEF TIMER	ON	ALL	RELIEF TIMER
REMOTE CABINET FAIL	FAIL	CONSOLE 6	REMOTE CABINET FAIL
ROCK OVER PRESSURE	ALARM	ALL	ROCK OVER PRESSURE

Alarm Alert Notice Response Table

ALARM TABLE NAVIGATOR			
Description	**Condition**	**Console**	**Link**
PRIORITY 1- ALARM			
ROCK 8" ESD	ALARM	ALL	ROCK_8_ESD
SAFETY FAULT	FAULT	ALL	SAFETY_FAULT
SCAN 1 COMMUNICATION FAIL	FAILURE	ALL	SCAN_1_COMMUNICATION_FAIL
SEAL FAIL	FAIL	ALL	SEAL_FAIL
SEGMENT/SYSTEM DISTURBANCE	ROC +/-	ALL	SEGMENT_SYSTEM_DISTURBANCE
STATION	ACTIVE	ALL	STATION
SUMP EXCESS RUNTIME	ACTIVE	ALL	SUMP_EXCESS_RUNTIME
SUMP PUMP EXCESSIVE STARTS	ACTIVE	ALL	SUMP_PUMP_EXCESSIVE_STARTS
TANK COMM FAIL	ALARM	ALL	TANK_COMM_FAIL
TANK EMERGENCY	E-HIHI	CONSOLES 5-6	TANK_EMERGENCY
TANK HIGH PSI	HIGH PRESSURE	ALL	TANK_High_Pressure
TOXIC GAS	ALARM	NH3	TOXIC_GAS
TOXIC GAS – SHUTDOWN	ALARM	NH3	TOXIC_GAS_SHUTDOWN_NH3
VALVE (#) PSI REVERSAL	PSI INHIBIT	ALL	VALVE_PSI_REVERSAL
UNAUTHORIZED ENTRY – NH3	ACTIVE	ALL	UNAUTHORIZED_ENTRY_NH3
UNAUTHORIZED ENTRY – HIGH VOLT LOSS	ACTIVE	ALL	UNAUTHORIZED_ENTRY_HIGH_VOLT_LOSS
UNCMDCHG	STOP, START, ON, OFF, OPEN, CLOSE	ALL	UNCMDCHG
VAPOR/GAS DETECTOR	ACTIVE	ALL	VAPOR_GAS_DETECTOR

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
% HEIGHT	**A/D-FAIL**
Indicates	A Tank % Height (is associated with NGL bullet tanks); the analog reading is outside scale indicating a device problem or abnormal conditions.
Response	1. Shutdown the line and take appropriate actions to secure the facility if the possibility exists that the tank is overfilled. 2. Review other data at the location to determine whether it is possible that the bullet/cavern is overfilled or if the alarm is most likely the result of a device malfunction. This review could include level readings before the time of the alarm or other data points at the location such as pressures, flow accumulators, etc. 3. Notify the appropriate field personnel at the Controller's discretion. 4. Document in Logmate.

PRIORITY 1- ALARM	
Description	**Condition**
% HEIGHT	**HI-HI**
Indicates	The normal top reached or exceeded on the tank (this alarm is associated with NGL bullet tanks). This alarm is generated by SCADA and is not the same as a HI-HI alarm, which is activated by a discreet switch on the tank.

Response	1. Stop the operation to ensure that the tank is not overfilled if the alarm is the expected result of a deliberate operation. It is preferable, but not mandatory, to remove some product at this point to clear the alarm condition.
	2. If the alarm is not the expected result of a deliberate operation:
	  a. Notify the appropriate field personnel immediately.
	  b. Take appropriate actions to ensure that additional product is not pumping into the tank if you cannot immediately get in contact with field personnel or if they cannot explain why the tank has reached normal top.
	  c. Take further actions at the direction of the appropriate field personnel.
	3. Notify the appropriate field personnel if a defective instrument caused the alarm. This can be done on manned hours at the Controller's discretion.
	4. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
ALTERNATE MODEM/RTU	FAILURE

Indicates	**ALTERNATE MODEM/RTU Alarm** – A possible <u>Abnormal Operating Condition</u>. A Loss of communications to both primary Communications and Alternate Modem Communications.

Response	1. Analyze and Verify.
	2. Take Corrective Actions. Corrective actions may include;
	    • Notification to Network Support.
	    • Notification to SCADA Support.
	    • Notification to Stratos.
	    • Notification to Field Personnel.
	    • Recording pressures and flow rate every 15 minutes on the <u>Comm Fail Recording Form</u>
	    • Manning of a location, monitoring responsibility for Tanks, Sumps etc.
	    • Attempt to clear the condition by using the Alternate Communication Clearing technique.
	3. Document in Logmate. Document actions taken, specify if an <u>AOC</u> occurred or Document as a False Alarm.

PRIORITY 1- ALARM	
DESCRIPTION	**CONDITION**
SCAN 1 COMMUNICATIONS FAIL	FAILURE
CONTROL COMMUNICATIONS	CONTROL
Indicates	A Loss of Communications.
Response	1. Analyze and Verify. 2. Notify field personnel.

Return to ALARM TABLE NAVIGATOR – <u>PRIORITY 1</u>, <u>PRIORITY 2</u> or <u>PRIORITY 3</u>

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
PRIMARY COMMUNICATIONS	FAILURE

Indicates	A possible Abnormal Operating Condition. A Loss of communications.

Response	**Note:** West Aquifer Communication Fail will result in loss of leak detection cable updates.
	1. Analyze and Verify.
	2. Notify field personnel.
	    • Obtain approval from Field Supervisor and Operations Control Supervisor if operations are to continue. Ensure the location is manned and this person is dedicated to this operation during the communications outage.
	    • If there is no activity at the location, the sump is isolated from the mainline and the location has no product tanks then the location does not need to be manned if approved by field management.
	    • Ensure that the field supervisor is aware of the responsibilities he/she is accepting as described in number 2 below if the location is going to be manned.
	3. While a location is in communication failure, the person staffing the location must perform the following:
	    • If a pump is running or it is a receive location or sump cannot be isolated:
	        1. Record pressures and flow rate every 15 minutes on the Comm Fail Recording Form. When communications is restored, provide the recorded readings to Operations Control who will retain a copy within Operations Control for 3 years.
	        2. Call in net meter readings, pressures and flow rates every hour to Operations Control.
	        3. Report changes in the pressures, flow rates and local discrete alarms beyond what has been normally seen in the current operation. Normally, a change of +/-5% of any pressure or flow rate must be reported immediately.
	        4. Call in tank levels including sumps and all active tanks at least once per shift and when requested by Controller.
	        5. Continue to staff the location until released by the Controller.
	    • If a pump is not running and the sump can be isolated:
	        1. Run as long as there is pressure, meter and flow upstream and downstream.
	4. While a location is in communication failure, the controller on duty must perform the following:
	    • Record meter information from the field to manually run over/shorts and update batch tracking. (Don't try to update BT during comm. outage, when comm. is restored BT will try to update itself. Verify pump/receive bbls in batch tracking and correct if necessary.)
	    • Confirm all pressure and flow changes have not deviated outside normal limits from the previous reading.
	        1. If the reading has deviated outside the normal limit, then investigate per 9.02-ADM-017 Normal Operations and Line Monitoring.
	5. If location cannot be manned:
	    • Do not operate mainline pumping units.
	    • If the mainline is operating through the location, field management must be apprised and assume responsibility for location safety.
	6. Document in Logmate, actions taken, specify if an AOC occurred or as a False Alarm.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
COMMUNICATIONS *Device*	FAIL
Indicates	A Loss of Communications. This indicates a loss of communication to various devices, such as a Programmable Logic Controller, Remote Terminal Unit, Unit Control, Location Control
Response	1. Analyze and Verify. 2. Notify Field Personnel immediately.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	**Condition**
ANALOG PROCESSOR ACTIVITY	WARNING
Indicates	Analog processor activity is suspect.
Response	1. Analyze and Verify. 2. Notify SCADA support immediately.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	**Condition**
BACKUP SCADA DOWN	NO RESPONSE
Indicates	Backup SCADA is down and not responding.
Response	1. Analyze and Verify. 2. Notify SCADA support immediately.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	**Condition**
BACKUP SCADA PROCESSES	MISSING
Indicates	Backup SCADA processes are missing.
Response	1. Analyze and Verify. 2. Notify SCADA support immediately.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
BT DRA PERMISSIVE	WARN / LOCKOUT
Indicates	Batch tracking has calculated jet fuel near a DRA injection site. The warning will alarm about 1 hour out from the location. The lockout alarm comes in when it is estimated that the jet fuel is at the DRA site.
Response	1. Analyze and Verify. 2. Shut down the applicable DRA at the site. 3. When the alarm clears the DRA can be started.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
BT OVERALL HEALTH STATUS	ACTIVE
Indicates	Batch Tracking is not updating and information is suspect.
Response	1. Analyze and Verify. 2. Notify SCADA support immediately.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
BYPASS FLOW	**ACTIVE**
LONGHORN PIPELINE	
Indicates	An upset condition on the pipeline. Located on the upstream side of all major river crossings this alarm attempts to prevent surging pressure by letting the flow bypass around the MLBV (the bypass will open when the differential pressures of each side of the valve reach a certain spread point).
Response	Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 1. Notify the on-call field personnel to go out and investigate the alarm. 2. The pipeline may be started back up when the investigation is complete and with the Operations Control Supervisor's approval. 3. Document in Logmate.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
CARTHAGE CAV EMERGENCY HI VAPORS	**ACTIVE**
Indicates	An Abnormal Operating Condition. A possible leak at the location. Occurs when flammable or hazardous vapors are detected. Gas detector switches are installed in pump rooms. There are two gas concentration levels. Lower concentration level, the Hazardous Gas Alarm will be generated but the units will not lock out. High concentration level, all units will lock out.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Notify field personnel. 3. Document in Logmate as an AOC.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
CAVERN HI HI LEVEL TIMER ON	ACTIVE
	CARTHAGE PROPANE CAVERN
Indicates	An Abnormal Operating Condition. A HI HI level alarm has been received on the cavern and a timer has started. The Emergency Shutdown and closure of all valves associated with the cavern will activate in 10 minutes.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Notify the appropriate field personnel. 3. Document in Logmate as an AOC.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
CAVERN HI HI LEVEL EMERGENCY SHUTDOWN	ACTIVE
	CARTHAGE PROPANE CAVERN
Indicates	An Abnormal Operating Condition. The Cavern Emergency Shutdown has activated due to a HI HI Level (set at 178,325 bbls). Everything associated with the Cavern is shut down or closed.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Notify the appropriate field personnel. 3. Document in Logmate as an AOC.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
CAVERN HI HI PRESSURE TIMER ON	ACTIVE
	CARTHAGE PROPANE CAVERN
Indicates	An Abnormal Operating Condition. A HI HI pressure alarm (set at 123 psi) has been received on the cavern and a timer has started. The Emergency Shutdown and closure of all valves associated with the cavern will activate in 10 minutes.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown 2. Notify the appropriate field personnel. 3. Document in Logmate as an AOC.
Description	**Condition**
CAVERN HI HI PRESSURE EMERGENCY SHUTDOWN	ACTIVE
	CARTHAGE PROPANE CAVERN
Indicates	An Abnormal Operating Condition. The Cavern Emergency Shutdown has activated due to HI HI Pressure (set at 123 psi). Everything associated with the Cavern is shut down or closed.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Notify the appropriate field personnel. 3. Document in Logmate as an AOC.
Description	**Condition**
CAVERN HIGH PRESSURE	ACTIVE
	CARTHAGE PROPANE CAVERN
Indicates	The Cavern is experiencing a high pressure alarm (set at 121 psi).
Response	1. Perform an Investigation Event Shutdown per 9.02-ADM-002 Startup and Shutdown and take appropriate actions to secure the facility if the possibility exists that the tank is over pressured. 2. Notify the appropriate field personnel. 3. Document in Logmate.
CODE RED INITIATED	ALARM
	ALL CONSOLES
Indicates	A Code Red event has been declared on the console specified.
Response	1. Review current operations and determine availability to assist Controller at the Code Red console. If able to assist: • Get status report from affected console. • Access the Code Red procedure. • Review Code Red procedure and assist Controller at the affected console with tasks requested and per procedure. 2. Document actions taken in Logmate. (Example: reviewed for/shut down affected pipelines, assisted Controller, etc...).

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
DRA URGENT	**ACTIVE**
Indicates	Multiple alarm types: Start Fail, Drop Off Alarm, Low Injection Rate, DRA Pulse Failure, Stop Failure, High Injection Rate, Low Nitrogen Pressure, Product Pulse Failure. Field personnel will have to investigate and clear this type of alarm.
Response	1. Analyze and Verify. 2. Notify the appropriate field personnel immediately. 3. Document in Logmate actions taken.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
DROP CHECK	**TRIPPED**
Indicates	High pressure shutdown of delivery tripped check valve closed.
Response	1. Take immediate action to protect the mainline from over pressure situations (if the Drop Check is associated with the mainline). 2. Take appropriate actions to secure the affected facilities. 3. Contact appropriate field personnel immediately to investigate. 4. Once the investigation is complete, the Drop Check has been lifted and the alarm cleared, the line may be restarted.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	**Condition**
EMERGENCY SHUTDOWN ESD	**ACTIVE**
Indicates	An Abnormal Operating Condition. A device (Pump, Tank Receipt, Carthage Cavern or other device) was shut down via either an automatic or manually tripped Emergency Shutdown Command in the field or at another company's facility.
Response	1. Take immediate action to protect the mainline from over pressure situations (if the ESD is associated with the mainline). 2. Take appropriate actions to secure the affected facilities. 3. Contact appropriate field personnel or facility to notify them of the ESD or, if the location was manned, find out why the ESD was issued. 4. Wait for further instructions from the field personnel or facility after they have investigated the reasons behind the ESD. 5. Document actions taken and cause of alarm in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	**Condition**
ENTERPRISE – FIRE	**ACTIVE**
Indicates	Enterprise's fire alarm has been activated.
Response	1. Immediately call Enterprise Control and the location of the Fire Alarm. If a Fire Alarm cannot be verified false – proceed to 9.02-ADM-011 Emergency – Code Red – Investigation Event. If the alarm is a verified false alarm – then you may continue to run the line as long as the alarm is actively being cleared and the location is manned. If no one answers, perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 1. Call the local Fire Department listed in the fire response list for that location. 2. Notify the person on call at unmanned locations. 3. If field personnel verify it was a false alarm, the line may be restarted. 4. Document in Logmate, specify actions taken, cause or if False Alarm.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
HAZARDOUS GAS - EPCO	**DETECTED**
NH3 ONLY	
Indicates	Enterprise's gas sensor has detected flammable or otherwise hazardous vapors.

Response	1. Immediately call the location.
	   a. If answered and an alarm condition is verified – proceed to 9.02-ADM-011 Emergency – Code Red – Investigation Event. If the alarm is a false alarm – then you may continue to run the line as long as the alarm is actively being cleared and the location is manned.
	   b. If no one answers, perform a Code Red Shutdown per the 9.02-ADM-002 Startup and Shutdown.
	Immediately notify the appropriate field personnel to investigate.
	2. If field personnel verify it was a false alarm, the line may be restarted.
	3. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
ENTERPRISE – LINK DOWN	**FAILURE**
NH3 ONLY	
Indicates	Communication link between Enterprise and Magellan is down.
Response	1. Notify Enterprise control room of communication link down. 2. Obtain approval from Field Supervisor and Operations Control supervisor if the location is going to continue to run. 3. Ensure the location is manned and this person is dedicated to this operation during the communications link outage.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
EMERGENCY SHUT DOWN	**ACTIVE**
Indicates	An Abnormal Operating Condition. Indication that there was a single command issued, either from the Control Center or locally, that caused the entire station to be shutdown due to an emergency situation.
Response	1. Notify Field Personnel 2. Adjust Pipeline Hydraulics. 3. Document in Logmate as an AOC. **Note**: If, automated butane blending pump has shut down the field needs to proceed with caution because one of the following conditions triggered this alarm: Hi Hi Hazardous Gas Alarm (generated by any 1 of 4 transmitters), or ESD alarm generated by the location.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
ESD BYPASS	**ACTIVE**
Indicates	That the field has put the emergency shutdown into "local control". In this position, the ESD will not work when issued from SCADA. This is generally used when work is being done at the location.

Response	1. Contact the location or the appropriate on-call person. Before the equipment can be restarted, the appropriate field personnel must:
	   a. Inspect the situation.
	   b. Clear the alarm condition.
	2. Note on the Turnover Sheet that the station is in ESD Bypass if work is being done for the day and ensure that the alarm is cleared when the work is completed.
	3. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
EXPLORER ESD VALVE	**ALARM**

Indicates	There was logic added to the PLC at Mount Vernon Jct. to protect our low pressure manifold while receiving from Explorer. This logic will automatically close valve 40 or 41 when the following conditions occur:
	  • Anytime the pressure from Explorer exceeds 285psi, it will start a 10 minute timer. If the pressure stays above 285, then it will automatically close valve 40 or 41 depending on which valve is currently active.
	  • Anytime receive pressure from Explorer exceeds 295psi, then it will automatically close 40 or 41, depending on which valve is currently active.
	  • Anytime a high level tank alarm is tripped, it will start a 5 minute timer. If the alarm is active for 5 minutes, then it will automatically close valve 40 or 41 depending on which valve is currently active.
	  • Anytime a high-high level tank alarm is tripped, it will automatically close valve 40 or 41 depending on which valve is currently active

Response	1. Notify Explorer Control Center of the situation. 2. Notify the field of the situation so they can inspect the location. 3. Document in Logmate.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
FIN T.O.	ACTIVE
Indicates	Indicates failure of completed command within SCADA allocated time for the following ...... pumps status (run/off), SEQ (sequence), OOS (out of service)..... For valve status ERR (error), open, closed, travel.
Response	1. Reissue command. 2. Investigate if additional failure. 3. Contact field if needed. 4. Document in Logmate.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
FIRE May also be known as "Station Smoke", "Tank Fire", "Terminal Fire" or "Fire Alarm".	**ACTIVE**
Indicates	An Abnormal Operating Condition. A flame detector switch (fire eyes) has detected a possible fire. These flame detector switches are commonly installed at manifolds, pump stations and truck loading racks. There is also one installed on the Carthage Cavern pumps.

Response	1. Immediately call the location of the fire alarm to verify alarm.
	    • If the Alarm is verified as True, perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown.
	    • If the Alarm is verified as False, you may continue to run the line as long as the alarm is actively being cleared and the location is manned.
	    • If no one answers, perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown.
	1. Call the local Fire Department listed in the fire response list for that location.
	2. Notify the person on call at unmanned locations.
	3. If field personnel verify it was a false alarm, the line may be restarted.
	4. Document in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
HAZARDOUS GAS - FLAMMABLE	DETECTED
Indicates	A possible Abnormal Operating Condition. A possible leak at the location. Occurs when a gas detector switch senses flammable or otherwise hazardous vapors. These switches are commonly installed in pump rooms. There are two gas concentration levels that the detector switch will sense. At the lower concentration level, the Hazardous Gas Alarm will be generated but the units will not lock out. At higher concentration levels, all units will lock out and the Controller will receive a lockout alarm and will also receive a Hazardous Gas Alarm if that discreet point was not already in an alarm state. **Note**: On NGL lines (Propane/Butane) mainline should be shutdown and station isolated on any hazardous gas alarms.

Response	1. Immediately call the location to verify alarm.
	    • If the Alarm is verified as True – proceed to 9.02-ADM-011 Emergency-Code Red-Investigation Event.
	    • If the Alarm is a verified False alarm – then you may continue to run the line as long as the alarm is actively being cleared and the location is manned.
	    • If no one answers at the location, perform and Investigation Event Shutdown per the Startup and Shutdown Procedure.
	2. Notify field on call personnel.
	
	3. Document in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
EMERGENCY HIGH SUMP	**ACTIVE**

Indicates	A possible Abnormal Operating Condition. This condition is reported as an AOC if the location is Unmanned at the time of the Alarm and the Alarm is verified as True. Sump level (depending on size/type) has reached 400 gallons (30 inches) or 600 gallons (50 inches), or is full. A level switch on the sump tank activates this alarm.
Response	1. If the location is manned then notify the appropriate field personnel immediately. If the alarm can be cleared within 10 minutes or verified by them to be a false alarm, the location can continue to run. 2. If the location is unmanned, perform a Code Red Shutdown of all affected mainlines per 9.02-ADM-002 Startup and Shutdown 3. If possible, isolate the location from mainline and/or tank operations. 4. Immediately notify the on-call person for the field. 5. Obtain field approval to restart the line once the alarm has been cleared. 6. Document in Logmate, Identify if the station was manned or unmanned.

Return to ALARM TABLE NAVIGATOR – PRIORITY_1, PRIORITY_2 or PRIORITY_3

Description	**Condition**
EMERGENCY HIGH SUMP – TERM	**HIGH HIGH**

Indicates	A sump level is above the SCADA set threshold. This sump could be an oil / water separator.
Response	1. Notify the appropriate field personnel immediately. 2. As this sump is not connected to any mainlines, they do not have to be shut down due to this alarm. 3. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY_1, PRIORITY_2 or PRIORITY_3

Description	**Condition**
DV25 SHUTDOWN	**LOCKOUT**

Indicates	An Abnormal Operating Condition. A DV25 is an overpressure protection device that activates the shutdown of a Unit when pressures exceed a preset value.
Response	1. Notify the appropriate field personnel immediately 2. Notify Control Center Supervisor. 3. After facility piping is inspected, obtain approval of restart from Control Center Supervisor. 4. Document in Logmate as an AOC. Document whether MOP was exceeded.

Return to ALARM TABLE NAVIGATOR – PRIORITY_1, PRIORITY_2 or PRIORITY_3

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
TEMPERATURE	**ACTIVE**
Indicates	A high temperature reading on a piece of equipment. Most commonly associated with pumping units. High temperature alarms can be received from pump or motor bearings, motor windings or the liquid inside a pump.

Response	1. Shutdown the affected piece of equipment, if not already down.
	2. Contact the location or the appropriate on-call person. Before the equipment can be restarted, the appropriate field personnel must:
	    Inspect the situation.
	    Clear the alarm condition.
	    Give the OK to start the unit.
	3. Adjust the line operation as necessary for safe and economical operation

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Description	Condition
HIGH LEVEL TANK	**HIGH-HIGH**
Indicates	An Abnormal Operating Condition. A level switch on the tank activates this alarm. At most locations, High Level tank alarm switches are wired in series to a single alarm point. Caution must be taken because at most locations, once a High Level Tank Alarm is activated, no other High Level Tank Alarms from that location will be sent to Operations Control until the alarm is cleared. High Level tank alarms are designed to allow for 10 minutes of flow at maximum flow rate before an overflow condition occurs.
Response	1. Immediately call the location of the High Level Tank Alarm to verify alarm. If the alarm can immediately be verified false by an operator manning the station—then operations may continue as long as the alarm is actively being cleared and the location continues to be manned. 2. If operations allow, you may switch by the location. If operations do not allow you to switch by, perform a Code Red Shutdown per the Startup and Shutdown Procedure. 3. If no one answers or the alarm cannot immediately be verified false or the location is unmanned, perform a Code Red Shutdown per the Startup and Shutdown Procedure. 4. Contact appropriate field personnel at the location immediately. 5. Do not resume operations into the affected facility until the alarm has been cleared or the location has verified a false alarm. 6. Document in Logmate as an AOC.

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
HIGH RECEIVE PRESSURE	ACTIVE

Indicates	Incoming pressure from mainline or lateral has reached meter pressure limits. May initiate drop check or solenoid valve closures.
Response	1. Take immediate action to reduce flow and / or pressure to a safe level. 2. If drop check closes, notify field personnel to investigate and reset prior to restarting delivery.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
HIGH RELIEF TANK	ACTIVE

Indicates	An Abnormal Operating Condition. The relief flow tank is in danger of overflowing. A high relief tank alarm immediately closes all of the location's mainline valves (at some locations)
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. **Note:** At Pine Bend, the unit being fed by the relieving line will automatically shut down (via local programming) and the Controller will perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown on any other units running at the time of the event. If no relief alarm is received in conjunction with the tank alarm, all Pine Bend units will shut down automatically. 2. Notify the location or person on call. 3. Restart the line once the alarm condition has been investigated and cleared. 4. Document in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
Description	**Condition**
HI-HI RELIEF TANK	ACTIVE

Indicates	An Abnormal Operating Condition. The relief flow tank is in danger of overflowing.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. **Note:** At Pine Bend, all units will automatically shut down via local programming. 2. Notify the location or person on call. 3. Restart the line once the alarm condition has been investigated and cleared. 4. Document in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	
INTER RELIEF TANK	ALARM

Indicates	Indicates level increasing in the facility intermediate relief tank.
Response	1. Perform a Code Red Shutdown on active lines, per 9.02-ADM-002 Startup and Shutdown. 2. Notify Field Personnel. 3. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
INT T.O.	**ACTIVE**
Indicates	Indicates failure of completed command within SCADA allocated time for the following …… pumps status (run/off), SEQ (sequence), OOS (out of service)….. For valve status ERR (error), open, closed, travel.
Response	1. Reissue command. 2. Investigate if additional failure. 3. Contact field if needed.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	Condition
HPSR RELIEF	**RELIEF**
MAINLINE RELIEF FLOW	**ACTIVE**
Indicates	An Abnormal Operating Condition. Operation of a mainline surge relief system. These systems are designed to protect mainline from pressure surges.
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Notify the appropriate field personnel immediately. 3. Investigate the cause of the alarm with the appropriate field personnel. Once the cause has been determined, the appropriate field personnel will clear the alarm condition. 4. Re-pressure the line to approximately 350 psi and monitor for a period of 30 minutes if at the time of the shutdown, the line segment had less than 200 psi and the line remained down for more than 30 minutes. 5. Restart the line operation if no unexplained pressure changes are experienced, the alarm condition has been cleared, and the MSR system is operable and the MSR isolation valve returned to its normal open position. 6. Document in Logmate as an AOC. **Note**: An intermediate relief tank alarm can be received shortly after the HP RELIEF FLOW alarm. The response for this alarm is the same as the response for the HP RELIEF FLOW alarm. However, all incoming mainlines must be shutdown if an intermediate relief tank alarm is received. **Note**: At some locations, if a high relief tank alarm is received all incoming mainline isolation valves at that location are automatically closed. Lines can be restarted only after proper precautions are taken, using SCADA parameters, or the relief tank is emptied.

Description	Condition
LEAK DETECTION CABLE	**ACTIVE**
LONGHORN PIPELINE ALARM/EDWARD'S AQUIFER – AUSTIN, TX	
Response	1. Perform a Code Red Shutdown per 9.02-ADM-002 Startup and Shutdown. 2. Isolate the Edwards Aquifer by closing the East and West MLBV's. 3. Dispatch appropriate field personnel to the site to investigate. 4. Follow 9.02-ADM-011 Emergency – Code Red – Investigation Event if confirmed leak. 5. If a false alarm verified by the field, then line may be restarted. 6. Document in Logmate as an AOC.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Alarm Alert Notice Response Table

PRIORITY 1- ALARM	
Description	**Condition**
LEAK DETECTION **PLDS**	**DISABLED**
Indicates	The leak detection system cannot perform calculations.
Response	1. Analyze and take corrective action. **Note: Corrective action may include reset of Mirmir (PLDS) or manual data entry.** 2. Notify the Operations Control Supervisor if needed. **Note: If Longhorn, achieve shutdown within 30 minutes.** **3.** Document in Logmate.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Description	**Condition**
LEAK DETECTION OPERATION **FAILURE/ERROR**	**ALARM** **LONGHORN AND NH3 ONLY**
Indicates	The SCADA system acts as a watchdog for PLDS. On Leak Detection Operation condition it declares FAILURE if it detects no PLDS running or ERROR if two of same PLDS are running. The SCADA checks both servers LDS1 and LDS2.
Response	**Note:** Longhorn Mitigation Plan requires a controlled shutdown within 30 minutes if the SCADA system experiences any outage that results in a total loss of leak detection capability, or a diminished capability of the system to detect leaks. 1. Notify the Leak Detection Analyst. 2. Document in Logmate.
Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Description	**Condition**
LEAK DETECTION LEAKWARN	**EMERG-LO**
Indicates	A system indication of a line integrity anomaly, requiring investigation.

Response	1. If alarming on a super sector, analyze to determine affected location/line segment/sector and apply the balance of the steps to that segment/sector only. If unable to determine segment/sector, apply balance of steps to all segments/sectors of super sector.
	2. Perform an Investigation Event Shutdown per 9.02-ADM-002 Startup and Shutdown.
	   a. Uninitiated unit or line shutdowns along with this alarm have an increased leak risk. Do not restart units or lines where this occurs without Supervisor approval. Do not attempt an Investigation Event Shutdown when this occurs, use a Code Red Shutdown.
	3. Investigate/analyze to determine cause.
	   a. If cause indicated **is** a leak, proceed to 9.02-ADM-011 Emergency – Code Red – Investigation Event.
	   b. If cause indicated **is not** a leak, contact Supervisor for approval to complete a 30 minute pressure test (if necessary) and restart the line.
	Document in Logmate. Classify the cause as a "***Data Failure***", or an "***Irregular Operating Condition***", or as a "***Possible Commodity Loss***".

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3	

Alarm Alert Notice Response Table

Description	Condition
LEAK DETECTION PLDS	**EMERG-LO**

Indicates	A system indication of a line integrity anomaly, requiring investigation. **Note:** The Longhorn Mitigation Plan requires a controlled shutdown and isolation of the Longhorn pipeline within 5 minutes of the indication.

Response	1. Perform an Investigation Event Shutdown per the 9.02-ADM-002 Startup and Shutdown.
	2. Investigate line integrity via trends and event records.
	3. Notify the Supervisor or Leak Detection Analyst (LDA).
	   a. If after shutdown, an abnormal or unexpected pressure drop occurs, then proceed to Emergency Code Red Procedure in Emergency Code Red – Investigation Procedure event.
	   b. If after shutdown, the Supervisor or LDA investigation indicates a false alarm, then the Supervisor or LDA may approve restarting the line.
	4. Document in Logmate. Classify the cause as a "**Data Failure**", or an "**Irregular Operating Condition**", or as a "**Possible Commodity Loss**"

Description	Condition
LEAK DETECTION SCADA	**EMERG-LO**

Indicates	A system indication of a line integrity anomaly, requiring investigation. This Alarm may be generated based on variety of Abnormal Deviations of Equipment Status monitored by the SCADA System, for example Unit RPM, Unit AMP's, or Unit Vibrations, Abnormal Metering Deviations and or abnormal Pressure or Flow deviations.

Response	1. Perform a Code Red Event Shutdown per the 9.02-ADM-002 Startup and Shutdown. This may require directing Field Personnel to perform shut down.
	2. Direct field to perform investigation, both physical and data analysis (as available).
	3. Investigate line integrity via trends and event records.
	4. Notify the Supervisor or Leak Detection Analyst (LDA).
	   a. If after shutdown, an abnormal or unexpected pressure drop occurs, then proceed to Emergency Code Red Procedure in Emergency Code Red – Investigation Procedure event.
	   b. If after shutdown, the Supervisor or LDA investigation indicates a false alarm, then the Supervisor or LDA may approve restarting the line.
	5. Document in Logmate. Classify the cause as a "**Data Failure**", or an "**Irregular Operating Condition**", or as a "**Possible Commodity Loss**"

Alarm Alert Notice Response Table

Description	Condition
LINE / TANK DENSITY MISMATCH	**MISMATCH**

Indicates	Indicates possible contamination as the incoming line gravity does not match the tank gravity (via the gravity range table) that is being received into.
Response	1. Verify that the product being received is compatible with the tank that is being received into. 2. If it is not, shut down the operation immediately and notify Field personnel to investigate and the Ops Control Supervisor to mitigate potential contamination issues. 3. If it is but the line gravity is out of range with the tank gravity table, notify the Operations Control Supervisor. 4. Document in Logmate

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	Condition
LOCATION or TANK	**COMMFAIL**

Indicates	This alert indicates the tank is not responding to the PLC or TAS.
Response	1. Immediately call the location or the on-call personnel to verify the alert. 2. Verify if the tank in question is isolated from any operations until the field can investigate the malfunctioning gauge. 3. If the tank cannot be isolated from all operations, perform Normal Shutdown per the 9.02-ADM-002 Startup and Shutdown. 4. All operations connected with the tank must be left down until field operations can verify the problem. 5. Document in Logmate.

Return to ALARM TABLE NAVIGATOR – PRIORITY 1, PRIORITY 2 or PRIORITY 3

Description	Condition
LOCKOUT	**LOCKOUT**
STATION LOCKOUT	**LOCKOUT**

Indicates	A possible Abnormal Operating Condition. The mainline units can shutdown and lock out for various reasons.

Response	1. If a HIGH HIGH pressure or case alarm is received prior to the lockout then notify the field immediately. This could indicate a Device 25 Shutdown operation that needs to be investigated. Restart the unit after field personnel have:
	  a. Inspected the situation.
	  b. Cleared or Reset the lockout.
	  c. Given the OK to start the unit.
	2. If a HIGH HIGH pressure or case alarm is not received then contact the appropriate field personnel if the unit is needed for the schedule. This contact may be delayed until daylight hours if the unit is not required immediately.
	3. Document in Logmate. Identify if Lockout was due to DV 25 operation.